UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,064,486 B1 Page 1 of 7

APPLICATION NO.: 09/641685
DATED: June 20, 2006
INVENTOR(S): Mabry

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The Title page, showing an illustrative figure, should be deleted and substitute therefor the attached Title page.

In the drawings, sheets 1 to 7, replace informal Figures 1 to 7 with Formal Figures 1 to 7 attached.

Signed and Sealed this

First Day of September, 2009

David J. Kappos

David J. Kappos

Director of the United States Patent and Trademark Office

(12) United States Patent Mabry

(10) Patent No.:

US 7,064,486 B1

(45) Date of Patent:

Jun. 20, 2006

(54) LOCKING DEVICE FOR MICROCHANNEL PLATE IN IMAGE AMPLIFIER TUBE

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(73) Assignee: ITT Manufacturing Enterprises, Inc.,

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(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35 U.S.C. 154(b) by 1190 days.

(21) Appl. No.: 09/641,685

(22) Filed: Aug. 18, 2000

(51) Int. Cl. H01J 31/50

(2006.01)

(52) U.S. Cl. 313/544; 313/477 R; 313/524

(58) Field of Classification Search 313/370,

313/534, 103 CM, 528, 544, 530, 116, 377, 313/379, 541, 105 CM

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

5,402,034 A 3/1995 Blouch et al.

5,404,072 A * 4/1995 Flanary et al. 313/477 R

6,040,657 A 3/2000 Vrescak et al.

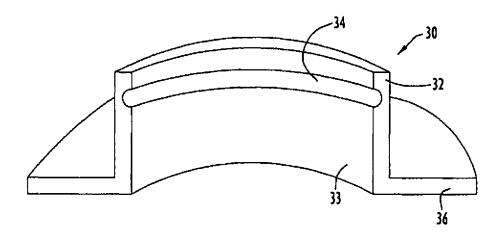
• cited by examiner

Primary Examiner—Vip Patel Assistant Examiner—Ken Berck

(57) ABSTRACT

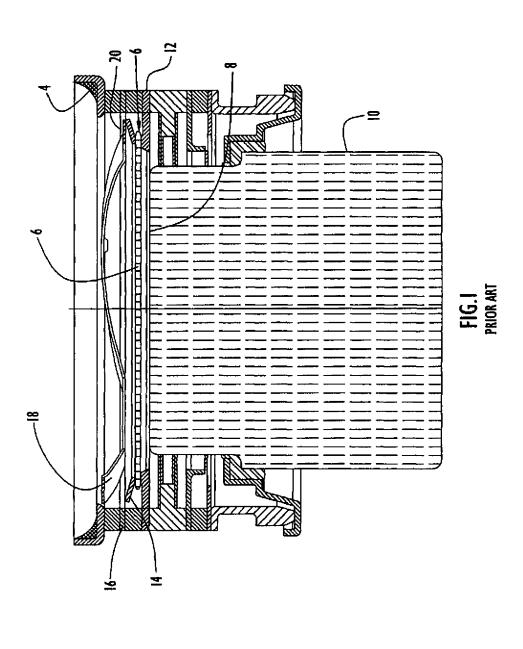
An image intensifier tube comprising a housing which holds a photocathode and a screen, wherein a microchannel plate is supported in a recess in an interior surface of an annular collar which is also held in the housing.

11 Claims, 5 Drawing Sheets



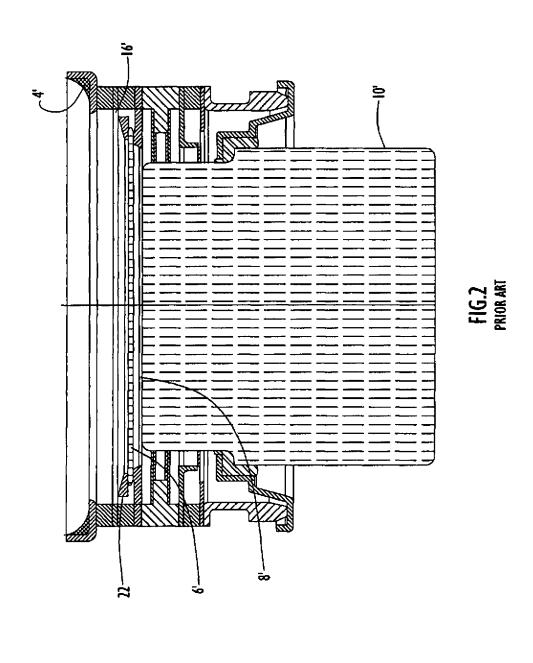
U.S. Patent

Jun. 20, 2006 Sheet 1 of 5



U.S. Patent

Jun. 20, 2006 Sheet 2 of 5



U.S. Patent

Jun. 20, 2006

Sheet 3 of 5

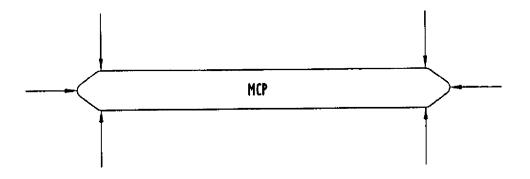


FIG.3
PRIOR ART

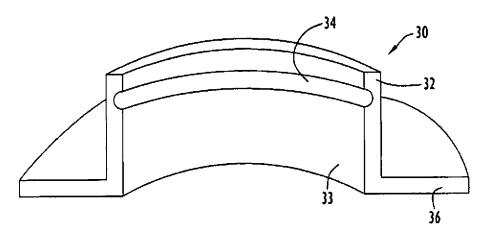
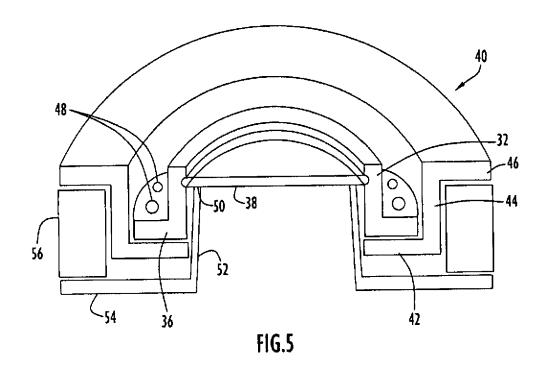


FIG.4

U.S. Patent

Jun. 20, 2006

Sheet 4 of 5



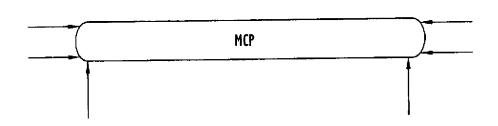


FIG.6